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Scientific and Technical Information Center SEARCH REQUEST FORM

Requester's Full Name: Teffre Phone No. 1654 Phone Phone No. 1654 Phone Phone No. 1654 Phone Pho	umber: 2-0969 ailbox #): 3C 18 Results	niner #: 62785 Date Serial Number: 10/66 Format Preferred (circle):	
To ensure an efficient and quality search, ple	ase attach a copy of the cover sheet	, claims, and abstract or fill out t	he following:
Title of Invention: And - Fibal			
Inventors (please provide full names):	2. Hammer, Y. Fu,	J. Avoln, T. Dille	er, M. Mclay
Earliest Priority Date: 9-18-2007	3		•
Search Topic: Please provide a detailed statement of the searc elected species or structures, keywords, synony Define any terms that may have a special mean	ch topic, and describe as specifically ms. acronyms, and registry numbers	, and combine with the concept or	searched. Include the utility of the invention.
For Sequence Searches Only Please include	e all pertinent information (parent, c	hild, divisional, or issued patent n	umbers) along with the
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STAFF USE ONLY	Type of Search	Vendors and cost where a	
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Date Completed:	Litigation	Interference SPDI	Encode/Transi

Other

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L13 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:474923 HCAPLUS

DOCUMENT NUMBER: 143:20040

TITLE: Anti-fibril peptides

INVENTOR (S): Hammer, Robert P.; Fu, Yanwen; Aucoin, Jed P.; Miller,

Tod J.; McLaughlin, Mark L.; McCarley, Robin L.

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 28 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005119187	A1	20050602	US 2003-666095	20030918
PRIORITY APPLN. INFO.:			US 2002-412081P P	20020919
AP Chart postides containing Con disconviolations (Dog) at alternating				

AB Short peptides containing $C\alpha\alpha$ -dipropylglycine (Dpg) at alternating sequence positions were synthesized and examined for conformational behavior. Peptide assembly was performed using Fmoc-solid-phase chemical where the coupling with PyAOP could be significantly enhanced at elevated temperature CD (CD) and NMR conformational studies revealed that incorporation of Dpg residues induced folded structures into peptides. It was observed that Dpg residues adopted helical conformation in a helix-promoting sequence. The resulting helical structure was comprised of consecutive β -turns whose structure was stabilized by salt bridge in aqueous solution In this study, the preparation of sterically and polyfunctional Cαa-disubstituted amino acids (ααAAs) via alkylation of Et nitroacetate and transformation into derivs. ready for incorporation into peptides are described. Treatment of Et nitroacetate with N, N-diisopropylethylamine in the presence of a catalytic amount of tetraalkylammonium salt, followed by the addition of an activated alkyl halide or Michael acceptor, gave the doubly C-alkylated product in good to excellent yields. Selective nitro reduction with Zn in acetic or hydrogen over Raney Ni gave the corresponding amino ester that, upon saponification, can be

protected with the fluorenylmethyloxycarbonyl (Fmoc) group. The synthesis of a sterically demanding $C\alpha\alpha$ -dibenzylglycine (Dbzg), and an orthogonally protected, tetrafunctional $C\alpha\alpha$ -disubstituted analog of aspartic acid Bcmg is described. The preparation of amyloid fibril blocker peptides based on amyloid peptide hydrophobic core Aß16-20 is described.

IT 397298-97-4P 642471-66-7P 852626-99-4P 852627-00-0P

> RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(anti-fibril peptides)

RN 397298-97-4 HCAPLUS

CN L-Lysinamide, L-lysyl-2-(2-methylpropyl)leucyl-L-valyl- α -(phenylmethyl)phenylalanyl-L-phenylalanyl-2-propylnorvalyl-L-lysyl-L-lysyl-L-lysyl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 852627-00-0 HCAPLUS

CN Norvalinamide, L-lysyl-2-(2-methylpropyl)leucyl-L-valyl- α - (phenylmethyl)phenylalanyl-L-phenylalanyl-2-propyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:893139 HCAPLUS

Ext. 22524

DOCUMENT NUMBER:

140:94278

TITLE: Facile Synthesis of α, α -Diisobutylqlycine

and Anchoring its Derivatives onto PAL-PEG-PS Resin Fu, Yanwen; Etienne, Marcus A.; Hammer, Robert P.

CORPORATE SOURCE: Department of Chemistry, Louisiana State University, Baton Rouge, LA, 70803, USA

SOURCE: Journal of Organic Chemistry (2003), 68(25), 9854-9857

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB α,α -Diisobutylglycine (Dibg) was synthesized using a Pd-mediated dialkylation of Et nitroacetate as a key first step. The free α,α -diisobutylglycine was N α -protected and was applied to solid-phase synthesis of a conformationally constrained peptide. Thus, peptide H-(Lys)7-Dibg-Val-Dbzg-Phe-Dpg-NH2 (Dbzg = α,α -dibenzylglycine, Dpg = α,α -dipropylglycine) was obtained in superior quality by using a trialkoxybenzyl linker on PEG-PS grafted support, to which Fmoc-Dpg-OH was attached by a mixed anhydride method.

IT 642471-66-7P

AUTHOR(S):

RL: SPN (Synthetic preparation); PREP (Preparation) (alkylation of nitroacetate for preparation of (diisobutyl)glycine and its use in peptide synthesis using PAL-PEG-PS as a solid support)

RN 642471-66-7 HCAPLUS

CN Norvalinamide, L-lysyl-L-l

Absolute stereochemistry.

PAGE 1-B

REFERENCE COUNT:

31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001

2001:924458 HCAPLUS

DOCUMENT NUMBER:

136:167687

TITLE:

Efficient acylation of the N-terminus of highly

hindered $C\alpha,\alpha\text{-disubstituted}$ amino acids

via amino acid symmetrical anhydrides

AUTHOR(S):

Fu, Yanwen; Hammer, Robert P.

CORPORATE SOURCE:

Department of Chemistry, Louisiana State University,

Baton Rouge, LA, 70803, USA

SOURCE:

Organic Letters (2002), 4(2), 237-240

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal English

LANGUAGE: OTHER SOURCE(S):

CASREACT 136:167687

AB Fmoc (Fmoc = 9-fluorenylmethyloxycarbonyl) amino acid sym. anhydrides are efficient and readily available reagents for acylation of the N-terminus of highly hindered $C\alpha,\alpha$ -dialkylated α -amino acids. Comparison of a variety of coupling protocols showed that the sym. anhydride method always provided the superior results. This method was successfully applied to the solid-phase synthesis of a peptide containing three $\alpha\alpha$ AAs at alternating positions.

IT 397298-97-4P

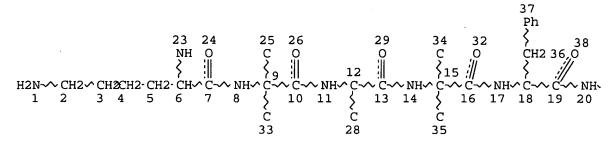
RL: SPN (Synthetic preparation); PREP (Preparation) (acylation of dialkylated amino acids via amino acid sym. anhydrides and application of this method to solid phase synthesis of peptide)

RN 397298-97-4 HCAPLUS

CN L-Lysinamide, L-lysyl-2-(2-methylpropyl)leucyl-L-valyl-α(phenylmethyl)phenylalanyl-L-phenylalanyl-2-propylnorvalyl-L-lysyl-L-lysyl-L-lysyl-L-lysyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

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Page 1-A

39 C \$21 ^C~~ C== 0 \$ 22 41 C 40

Page 1-B NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 38

STEREO ATTRIBUTES: NONE

L12 4 SEA FILE=REGISTRY SSS FUL L10 L13 3 SEA FILE=HCAPLUS ABB=ON L12

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(FILE 'HOME' ENTERED AT 16:57:58 ON 19 JUL 2005)

FILE 'HCAPLUS' ENTERED AT 16:58:28 ON 19 JUL 2005 E HAMMER ROBERT P/AU

- L198 SEA ABB=ON "HAMMER ROBERT P"/AU
 - E FU YANWEN/AU
- 11 SEA ABB=ON ("FU YANWAN"/AU OR "FU YANWEN"/AU) L2 E AUCOIN JED P/AU
- 10 SEA ABB=ON ("AUCOIN JED"/AU OR "AUCOIN JED P"/AU) L3E MILLER TOD J/AU
- L412 SEA ABB=ON ("MILLER TOD J"/AU OR "MILLER TOD JEFFREY"/AU) E MCLAUGHLIN MARK L/AU
- L5 127 SEA ABB=ON ("MCLAUGHLIN MARK"/AU OR "MCLAUGHLIN MARK L"/AU OR "MCLAUGHLIN MARK LEE"/AU) E MCCARLEY ROBIN L/AU
- 115 SEA ABB=ON ("MCCARLEY ROBIN"/AU OR "MCCARLEY ROBIN L"/AU OR 1.6 "MCCARLEY ROBIN LINDSEY"/AU)
- 1 SEA ABB=ON L1 AND L2 AND L3 AND L4 AND L5 AND L6 1.7 SELECT RN L7 1-1

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FILE 'REGISTRY' ENTERED AT 17:05:07 ON 19 JUL 2005

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L112 SEA SSS SAM L10

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2 SEA SSS SAM L10 4 SEA SSS FUL L10 4 compde from Registry FILE 'HCAPLUS' ENTERED AT 17:16:04 ON 19 JUL 2005 3 SEA ABB=ON L12 3 cells from CA Plus L13

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